

ELECTRON AND ION STATISTICS  
IN THE THERMAL PLASMA  
WITH CONDENSED PHASE

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S u m m a r y

Ionization balance in the thermal plasma containing particles of the condensed disperse phase is investigated. Expressions for electron and ion distributions in plasma with an infringement of concentration balance are received. It is shown that the presence a volumetric charge in the plasma gas phase changes its ionization degree. It is offered to take the given change into account by introducing a non-equilibrium parameter whose value depends on the perturbation brought by condensed particles. The dependence of the non-equilibrium parameter on the plasma potential is determined.